đ	CRF Errors Corrected by the STIC Systems Branch		· · ·		J^{k}
N	umb r: 09/77/,904 CRF Processir		1/ /		120
	Changed a file from non-ASCII to ASCIIENTERED Edited by: Z	9/1/		557	16
	Changed the margins in cases where the sequence text was "wrapped" down to the	next li	ne <i>log</i>	SENT STA	AUG
	Edited a format error in the Current Application Data section, specifically:		700	390	2
	Edited the Current Application Data section with the actual current number. The numapplicant was the prior application data; or other	ber in	0/2 %0	t by t	10
•	Added the mandatory heading and subheadings for "Current Application Data".			Al_	3
١	Edited the "Number of Sequences" field. The applicant spelled out a number instead	of usi	ng an	integ	er.
(Changed the spelling of a mandatory field (the headings or subheadings), specifically	:	_		
(Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that we	re edit	C eco we	(e) (e)	REG
1	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edit	ed:	OMAIL	18 2	JE IN C
	Corrected subheading placement. All responses must be on the same line as each subplicant placed a response below the subheading, this was moved to its appropriate			7 the	,
	A. L. Carrier and	piace.		<u> </u>	
1	Inserted ∞lons after headings/subheadings. Headings edited included:	piace.		K	
_		<u>.</u>			 .
_ [Inserted colons after headings/subheadings. Headings edited included:	· ·		end	of file
_ _	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials	· ·		end :	of file
- !	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as	/filena		· · · ·	<u>-</u> ·
- !	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	/filena	me at	VEI)))?
- !	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	/filena	me at	VEI)))?
	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	RE(me at	VEI)))?
- !	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically:	PEC AP OFFIC	me at	VEI 9 20 PETIT	D 02 10NS
- I	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" fie	PEC AP OFFIC	me at	VEI 9 20 PETIT	D 02 10NS
- I	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials. page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field to a PatentIn bug). Sequences corrected:	PEC AP OFFIC	me at	VEI 9 20 PETIT	D 02 10N:

Examiner: The above corrections must b communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING DATE: 02/21/2002 PATENT APPLICATION: US/09/771,904 TIME: 08:14:45

Input Set : A:\PTO.txt

Output Set: N:\CRF3\02212002\I771904.raw

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	4	<110>	API	PLIC	CANT:	Del	Bonte	e, Lo	rin	R.						(2.)	
	5				hego			•								1		
	6		Mia	io,	Guo-	Hua												
	8	<120>	TIT	LLE	OF I	NVE	10IT	1: F	YTT	ACII	DES	SATUE	RASES	S ANI	O MU	TANT	SEQUENCES	THEREOF
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		<222> <223>								ma I	7247							
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		<223>					TON	n =	= a.	α. α	2. 01	r t/ı	1					
		<400>							-,	5,	-,	, .	-					
		atg g		-			aga	atq	caa	ata	tct	cct	ccc	tcc	aaq	aaq	tct	48
		Met G																
	39	1	_		_	5	_				10					15		
		gaa a																96
	42	Glu T	hr A	Asp	Thr	Ile	Lys	Arg	Val	${\tt Pro}$	Cys	Glu	Thr	Pro	Pro	Phe	Thr	
	43				20					25					30			
		gtc g																144
		Val G	1y (Leu	Lys	Lys	Ala		Pro	Pro	His	Cys		Lys	Arg	Ser	
	47			35					40					45				100
		atc c																192
		Ile P		Arg	Ser	Phe	Ser		Leu	ITe	Trp	Asp		шe	шe	Ala	Ser	
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		ctc t	00 1	t a c	tta	acc		cct	ctc	tac	taa		tac	caa	σσσ	tac		288
		Leu S																200
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66 Ser Asp	Tyr Gln Trp Leu	Asp Asp Thr Val	Gly Leu Ile Phe His Ser	
67	115	120	125	
			tac agt cat cgc agc cac	432
70 Phe Leu	Leu Val Pro Tyr	Phe Ser Trp Lys	Tyr Ser His Arg Ser His	
71 130		135	140	
			gaa gtg ttt gtc ccc aag	480
	-		Glu Val Phe Val Pro Lys	
75 145	150		155 160	
			tac ctc aac aac cct ttg	528
			Tyr Leu Asn Asn Pro Leu	
79	165	170		
			act ctc ggc tgg ccg ttg	576
			Thr Leu Gly Trp Pro Leu	
83	180	185	190	604
			tac gac ggc ggc ttc cgt	624
-			Tyr Asp Gly Gly Phe Arg	
87	195	200	205	672
_			aac gac cgc gag cgt ctc	672
_	Phe His Pro Asi		Asn Asp Arg Glu Arg Leu	
91 210	++- + -	215	220	720
			gcc gtc tgc tac ggt ctc Ala Val Cys Tyr Gly Leu	720
95 225	230		235 240	
			tog atg gto tgo tto tac	768
			Ser Met Val Cys Phe Tyr	, 00
99 File A19	245	250		
	= = =		c ctc gtg ttg atc act tac	816
			e Leu Val Leu Ile Thr Tyr	
103	260	265	270	
			c tac gat tcg tcc gag tgg	864
			s Tyr Asp Ser Ser Glu Trp	
107	275	280	285	
		t ttg gct acc gt	t gac aga gac tac gga atc	912
			l Asp Arg Asp Tyr Gly Ile	
112 290		295	300	
114 ttg aac	aag gtc ttc ca	ic aat att acc ga	c acg cac gtg gcc cat cat	960
115 Leu Asn	Lys Val Phe Hi	s Asn Ile Thr As	p Thr His Val Ala His His	
116 305	31	LO	315 . 320	
118 ccg ttc	tcc acg atg co	eg cat tat cac go	g atg gaa gct acc aag gcg	1008
119 Pro Phe	Ser Thr Met Pi	o His Tyr His A	a Met Glu Ala Thr Lys Ala	
120	325	. 33		
-			g ttc gat ggg acg ccg gtg	1056
_		=	n Phe Asp Gly Thr Pro Val	
124	340	345	350	
			g tgt atc tat gtg gaa ccg	1104
			u Cys Ile Tyr Val Glu Pro	RECEIVED
128	355	360	365	VIII VIIV
				APR 2 9 2002

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130 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 131 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 380 370 375 134 tga 1155 136 <210> SEQ ID NO: 2 137 <211> LENGTH: 384 138 <212> TYPE: PRT 139 <213> ORGANISM: Brassica napus 141 <220> FEATURE: 142 <223> OTHER INFORMATION: Xaa = Phe, Leu, Ile, or Val 144 <400> SEQUENCE: 2 145 Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Lys Ser 147 Glu Thr Asp Thr Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr 149 Val Gly Glu Leu Lys Lys Ala Ile Pro Pro His Cys Phe Lys Arg Ser 151 Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile Ile Ile Ala Ser 55 153 Cys Phe Tyr Tyr Xaa Ala Thr Thr Tyr Phe Pro Leu Pro His Pro 70 75 155 Leu Ser Tyr Phe Ala Trp Pro Leu Tyr Trp Ala Cys Gln Gly Cys Val 157 Leu Thr Gly Val Trp Val Ile Ala His Glu Cys Gly His His Ala Phe 100 105 159 Ser Asp Tyr Gln Trp Leu Asp Asp Thr Val Gly Leu Ile Phe His Ser 120 115 125 161 Phe Leu Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser His Arg Ser His 135 140 164 His Ser Asn Thr Gly Ser Leu Glu Arg Asp Glu Val Phe Val Pro Lys 150 155 166 Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu 165 170 168 Gly Arg Thr Val Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu 185 190 180 . 170 Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg 200 172 Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu 210 215 220 174 Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu 175 225 230 235 176 Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr 245 250 178 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr 260 265 180 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 275 280 182 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile 290 295

DATE: 02/21/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/771,904 TIME: 08:14:45

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Output Set: N:\CRF3\02212002\1771904.raw

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184	Leu	Asn	Lys	Val	Phe	His	Asn	Ile	Thr	Asp	Thr	His	Val	Ala	His	His	
	305					310					315					320	
186	Pro	Phe	Ser	Thr		Pro	His	Tyr	His	Ala	Met	Glu	Ala	Thr	Lys	Ala	
187					325					330					335		
	Ile	Lys	Pro		Leu	Gly	Glu	Tyr	_	Gln	Phe	Asp	Gly		Pro	Val į	
189				340					345					350	_		
	Val	Lys		Met.	Trp	Arg	Glu		Lys	Glu	Cys	Ile	_	Val	Glu	Pro	
191			355		_			360	_	_			365				
	Asp	_	Gln	Gly	Glu	Lys		Gly	Val	Phe	Trp		Asn	Asn	Lys	Leu	
193		370			_		375					380					
	<210										•						
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	205 <221> NAME/KEY: misc_feature 206 <222> LOCATION: 205																
	<223					י דראו	. n -	- 2	~ (•	~ + /ı	1					
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	atg		-			aga	atσ	саа	ata	tct	cct	CCC	tcc	ааσ	ааσ	tct	48
	Met																40
212	1	GLY	AIU	GLŢ	5	9	1100	0111	· u ·	10	110		001	<i>L</i> ₁ <i>C</i>	15	501	
	gaa	acc	gac	acc	_	ааσ	cac	αta	ccc		σασ	aca	cca	aca		act	96
	Glu		-			-	-	_		_							
216	Olu			20		_10	5		25	-1 -				30			
	gtc	gga	gaa		aaq	aaa	qca	atc		ccq	cac	tqt	ttc	aaa	cqc	tcq	144
	Val																
220		-	35		-	-		40					45	_	_		
	atc	cct	cgc	tct	ttc	tcc	tac	ctc	atc	tgg	gac	atc	atc	ata	gcc	tcc	192
223	Ile	Pro	Arg	Ser	Phe	Ser	Tyr	Leu	Ile	Trp	Asp	Ile	Ile	Ile	Ala	Ser	
, 224		50	_		,		55					60					
226	tgc	ttc	tac	tac	ntc	gcc	acc	act	tac	ttc	cct	ctc	ctc	cct	cac	cct	240
227	Cys	Phe	Tyr	Tyr	Xaa	Ala	Thr	Thr	Tyr	Phe	Pro	Leu	Leu	Pro	His	Pro	
228						70					75					80	
	ctc																288
231	Leu	Ser	Tyr	Phe	Ala	\mathtt{Trp}	Pro	Leu	\mathtt{Tyr}		Ala	Cys	Gln	Gly		Val	
232					85					_' 90					95		
	cta																336
	Leù	Thr	Gly		Trp	Val	Ile	Ala		Lys	Cys	GLY	His		Ala	Phe	
236				100	.				105			_+-	- - -	110		+	204
	agc																384
	Ser	Asp	_	GIN	тrр	ьeu	Asp		rnr	val	GTĀ	ьeu	11e	rne	HIS	ser.	
240	++-	a+ =	115	a+ =	ac+	+20	++~	120	+~~	227	+	20+		000	200	020	432
	ttc Phe																434
243	rne	130	neu	val	FIO	TÄT	135	SET	ттр	пуэ	TÄT	140		ALY	JEI	1113	
244		T 2 0					133					T40					



RAW SEQUENCE LISTING DATE: 02/21/2002 PATENT APPLICATION: US/09/771,904 TIME: 08:14:45

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Output Set: N:\CRF3\02212002\1771904.raw

248 145	247.	cat					Ser					Glu					Lys	480
165 170 175 175 176 175 176 175 176 175 176 175 176 175 176 175 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176		_	aag	tca	gac	atc	150 aag	tgg	tac	ggc	aag	155 tac	ctc	aac	aac	cct	160 ttg	528
254 gga cgc acc gtg atg tta acg gtt cag ttc act ctc ggc tgg ccg ttg 256		Lys	Lys	Ser	Asp		Lys	Trp	Tyr	Gly		Tyr	Leu	Asn	Asn		Leu	
180	254																	576
258 tac tta gcc ttc aac gtc tcg gga aga cct tac gac ggc ggc ttc cgt 259 Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg 260		Gly	Arg	Thr		Met	Leu	Thr	Val		Phe	Thr	Leu	Gly	_	Pro	Leu	
259 Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg 260 195 200 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205 205		tac	tta	acc		aac	atc	tca	απa		cct	tac	gac	aac		ttc	cat	624
260																		024
263 Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu 264		-1-								,		•	•		•			
266 cag at a tac atc tcc gac gct ggc atc ctc gcc gtc tgc tac ggt ctc 270 G17 G1n Ile Tyr Ile Ser Asp Ala G1y Ile Leu Ala Val Cys Tyr G1y Leu 280 225		_						-					-	_		_		672
266 cag ata tac atc tcc gac gct ggc atc ctc gcc gtc tgc tac ggt ctc 267 Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu 268 225 272 ttc cgt tac gcc gcc ggc cag gga gtg gcc tcg atg gtc ttc tac 273 Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr 274 275 276 gga gtc ccg ctt ctg att gtc aat gtt cctc gtg ttg atc act tac 277 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr 278 260 279 ttc cgt tac gcc gca cat cct tcc ctg cct cac tac gat tcg tcc gag tgg 280 ttg cag cac acg cat cct tcc ctg cct cac tac gat tcg tcc gag tgg 281 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 282 275 284 gat tgg ttc agg gga gct ttg gct acc gtt gac aga gac tac gga atc 285 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile 286 290 295 288 ttg aac aag gtc ttc cac aat att acc gac acg cac gtg gcc cat cat 289 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His 290 305 310 320 292 292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gaa gct acc gag gcg 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 294 325 320 320 320 321 320 320 321 320 320 321 320 320 321 320 320 321 320 320 321 320 320 320 321 320 320 320 321 320 320 320 320 320 320 320 320 321 320 320 320 320 320 320 320 320 320 320		Cys		Phe	His	Pro	Asn		Pro	Ile	Tyr	Asn		Arg	Glu	Arg	Leu	
267 Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu 240 240 240 240 240 240 240 240		~~~		+	2+0	+00	~ 2.0		~~~	2+0	ata	aaa		+00	+20	aa+	ctc	720
268 225																		720
273 Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr 245 276 gga gtc ccg ctt ctg att gtc aat ggt tcc ctc gtg ttg atc act tac 816 277 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr 265 280 ttg cag cac acg cat cct tcc ctg cct cac tac gat tcg tcc gag tgg 864 281 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 280 282 275 284 gat tgg ttc agg gga gct ttg gct acc gt gac aga gac tac gga tcg 295 285 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile 286 290 295 288 ttg aac aag gtc ttc cac aat att acc gac acg cac gtg gc cat cat 960 288 ttg aac aag gtc ttc cac aat att acc gac acg cac gtg gc cat cat 960 289 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His 310 290 ccg ttc tcc acg atg ccg cat tac cac gcg atg gaa gc acc aag gcg 1008 291 Tyr His Ala Met Glu Ala Thr Lys Ala 325 292 ccg ttc tcc acg atg ccg cat tac cac tac gag gcg 1008 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 325 294 305 295 10 Ala Asp Arg Gly Ala Leu Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 335 300 gtt aag gcg atg gag agg gcg aag gcg aag gtg tat tat tac gtg ga acc acc 350 301 yal Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 360 370 375 380 380 380 380 380 380 380 38			110	-1-	110	DCI	_		O ₁		Dou			0,10	-1-	011		
274			cgt	tac	gcc	gcc	ggc	cag	gga	gtg	gcc	tcg	atg	gtc	tgc	ttc	tac	768
276 gga gtc ccg ctt ctg att gtc aat ggt ttc ctc gtg ttg atc act tac 816 277 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr 260		Phe	Arg	Tyr	Ala		Gly	Gln	Gly	Val		Ser	Met	Val	Cys		Tyr	
277 Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr 278 280 ttg cag cac acg cat cct tcc ctg cct cac tac gat tcg tcc gag tgg 281 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 282 275 280 280 285 284 gat tgg ttc agg gga gct ttg gct acc gtt gac aga gac tac gga atc 285 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile 286 290 295 300 288 ttg aac aag gtc ttc cac aat att acc gac acg cac gtg gcc cat cat 289 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His 290 305 310 315 320 292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gac gcg atg gac gcg ata acc aad acc acc acc acc acc acc acc ac						_												016
278 260 265 265 270 280 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364																		810
280 ttg cag cac acg cat cct tcc ctg cct cac tac gat tcg tcc gag tgg 281 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 282		GTĀ	vaı	PIO		Leu	тте	vaı	ASII	_	Pne	Leu	Val	Leu		THE	TYL	
281 Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp 282		t.t.a	cag	cac		cat	cct	t.cc	cta		cac	tac	gat	tca		gag	taa	864
282																		
285 Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile 286	282			275					280			_	_	285				
286																		912
288 ttg aac aag gtc ttc cac aat att acc gac acg cac gtg gcc cat cat 289 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His 290 305 310 315 320 292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gaa gct acc aag gcg 1008 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 294 325 330 335 296 ata aag ccg ata ctg gga gag tat tat cac gttc gat ggg acg ccg gtg 1056 297 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 298 340 345 350 300 gtt aag gcg atg tgg agg gcg aag gcg aag gag tgt atc tat gtg gaa ccg 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 1155 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384		Asp	_	Phe	Arg	Gly	Ala		Ala	Thr	Val	Asp		Asp	Tyr	Gly	Ile	
289 Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His 290 305 310 315 320 292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gaa gct acc aag gcg 1008 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 325 330 335 296 ata aag ccg ata ctg gga gag tat tat cag ttc gat ggg acg ccg gtg 1056 340 345 350 300 gtt aag gcg atg tgg agg gag gag gcg aag ggg tgt atc tat gtg gaa ccg 350 340 345 350 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 360 360 365 360 304 gac agg caa ggt gag aag aag aag gag gag gag ttc tc tgg tac aac aat aag tta 1152 3152 3152 304 gac agg caa ggt gag aag aag aag gag gcg aag gag ttc tc tgg tac aac aat aag tta 1152 3152 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 375 3152 308 tga 370 375 375 310 <210> SEQ ID NO: 4 311 311 <211> LENGTH: 384											~~~			~+~	~~~	aa+	aa+	060
290 305 310 315 320 292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gaa gct acc aag gcg 1008 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 294 325 330 335 296 ata aag ccg ata ctg gga gag tat tat cag ttc gat ggg acg ccg gtg 1056 297 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 298 340 345 350 300 gtt aag gcg atg tgg agg gcg aag ggg tgt atc tat gtg gaa ccg 1104 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 1152 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 1155 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384																		960
292 ccg ttc tcc acg atg ccg cat tat cac gcg atg gaa gct acc aag gcg 293 Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala 294 325 330 335 296 ata aag ccg ata ctg gga gag tat tat cag ttc gat ggg acg ccg gtg 297 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 298 340 345 350 300 gtt aag gcg atg tgg agg gcg aag gcg aag gag tgt atc tat gtg gaa ccg 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384			NSII	цуз	vai	rnc		non	110	1111	пор		1110	val				
294 325 330 335 296 ata aag ccg ata ctg gga gag tat tat cag ttc gat ggg acg ccg gtg 297 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 298 340 345 350 300 gtt aag gcg atg tgg agg gag gcg aag gag tgt atc tat gtg gaa ccg 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384			ttc	tcc	acg	atg	. — -	cat	tat	cac	gcg		gaa	gct	acc	aag	gcg	1008
296 ata aag ccg ata ctg gga gag tat tat cag ttc gat ggg acg ccg gtg 297 Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val 298 340 345 350 300 gtt aag gcg atg tgg agg gag gcg aag gag tgt atc tat gtg gaa ccg 301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384	293	Pro	Phe	Ser	Thr	Met	Pro	His	Tyr	His	Ala	Met	Glu	Ala	Thr	Lys	Ala	
297																		
298																		1056
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301 Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro 302		att	aaσ	aca		taa	аσσ	σаσ	aca		σασ	t.at.	atc	t.a.t.		σaa	cca	1104
302 355 360 365 304 gac agg caa ggt gag aag aaa ggt gtg ttc tgg tac aac aat aag tta 1152 305 Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu 306 370 375 380 308 tga 1155 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384																		
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308 tga 310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384		Asp	_	Gln	Gly	Glu	Lys	_	Gly	Val	Phe	Trp		Asn	Asn	Lys	Leu	
310 <210> SEQ ID NO: 4 311 <211> LENGTH: 384			370					375					380					1155
311 <211> LENGTH: 384		_	וא פו	ים די	ח אר	. 1												1133

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.





VERIFICATION SUMMARY

PATENT APPLICATION: US/09/771,904

DATE: 02/21/2002

TIME: 08:14:46

Input Set : A:\PTO.txt

Output Set: N:\CRF3\02212002\I771904.raw

L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:153 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:153 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:328 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:328 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4